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APPLICANT : MITSUI MINING & SMELTING CO LTD;

INVENTOR : MORIMOTO KAZUNARI;

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TITLE : CHEMICAL SOLUTION FOR ARTIFICIAL VERDIGRIS AND TREATMENT OF ARTIFICIAL VERDIGRIS

ABSTRACT : PURPOSE: To obtain a chemical solution for artificial verdigris for forming a verdigris coating film having adhesivity and free from discoloring by preparing the chemical solution consisting of a specified ratio of ZnCl₂, H₃PO₄, H₂O₂ and water and having a specific pH value.

CONSTITUTION: The chemical solution consisting of 10-200g/l ZnCl₂ 50-500g/l H₃PO₄, 20-100g/l H₂O₂ and balance water and having pH of -1 to 2 is prepared. If necessary, at least one of ≤50g/l NaOH, 50g/l Zn, ≤10g/l one or more kind of SnCl₂, CoCl₂, NiCl₂ and ethylenediaminetetraacetic acid is added. The artificial verdigris coating film excellent in workability and weather resistance is obtained by sticking the chemical solution to a copper alloy by ≥20g/m² dry coating weight and aging it in the atmosphere of 20-80°C and ≥60% humidity.

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